



DOCKET NO. 2479.2171-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

- [] is attached hereto.
- [X] was filed on September 17, 2003 as United States Application Number 10/664,413.
- [] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].
- [] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature

Bing Chiang

Date 11/6/03

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainey

Inventor's Signature

Date

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature

Date

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Roupheal

Inventor's Signature

Date

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____ Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature  Date 6 Nov 03

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

\\ODMAMHODMA\iManage;428682;1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 17, 2003 as United States Application Number 10/664,413.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainey

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Rouphael

Inventor's Signature _____ Date _____

Residence 3503 Wild Oak Lane

Escondido, CA 92027

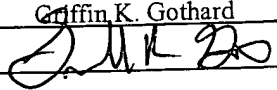
Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature



Date 1/30/04

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature

Date

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

@PFDesktop\ODMA\MHODMA\IMANAGE;428682;l

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 17, 2003 as United States Application Number 10/664,413.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainey

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Roupheal

Inventor's Signature  Date Nov 4, 2003

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____ Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature _____ Date _____

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

HAMILTON
BROOK
SMITH &
REYNOLDS, P.C.

PATENTS, TRADEMARKS
COPYRIGHTS & LITIGATION

530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD, MA 01742-9133
TEL (978) 341-0036
FAX (978) 341-0136
www.hbsr.com

MUNROE H. HAMILTON
(1906-1984)

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
JOHN L. DUPRE
DAVID J. BRODY
MARY LOU WAKIMURA
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
SUSAN G. L. GLOVSKY
DOREEN M. HOGLE
RICHARD W. WAGNER
ROBERT T. CONWAY
RODNEY D. JOHNSON
DAVID J. THIBODEAU, JR.
ANNE J. COLLINS
LISA M. TREANNIE
TIMOTHY J. MEAGHER
STEVEN G. DAVIS

SANDRA A. BROCKMAN-LEE
F. JAMES COE
COLIN C. DURHAM
CAROL A. EGNER
ERIK L. ENCE
GIOVANNA FESSENDEN
CAROLINE M. FLEMING
TODD A. GERETY
ANTOINETTE G. GIUGLIANO
ILYA R. LAPSHIN
HELEN LEE
JOSEPH M. MARAIA
MARY K. MURRAY
DEIRDRE E. SANDERS
KEVIN T. SHAUGHNESSY
MARK B. SOLOMON
TROY T. SVIHL
A. CRISTINA TAYLOR*
RALPH TREMENTOZZI
DARRELL L. WONG
JOSEPH C. ZUCCHERO
* NOT ADMITTED IN MASS.

OF COUNSEL

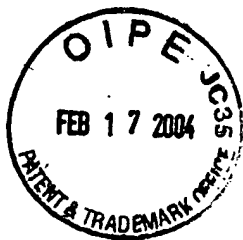
ELIZABETH W. MATA

PATENT AGENTS
SUSAN M. ABELLEIRA
ALEXANDER AKHIEZER
JESSE A. FECKER
PAMELA A. TORPEY
KAREN J. TOWNSEND
ROBERT H. UNDERWOOD

TECHNOLOGY SPECIALISTS
PAUL G. ALLOWAY
KRAIG ANDERSON
SUSAN C. KELLY
LUCY LUBASHEV
VIVIEN J. TANNOCH
MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN
ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE
ADMINISTRATOR OF
PATENT AND
TRADEMARK PRACTICE



October 24, 2003

Mr. James A. Proctor, Jr.
258 Sea View Street
Melbourne Beach, Florida 32951

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple Receiver Systems"

InterDigital Reference No.: TAN02-33

HBSR Docket No.: 2479.2171-001

Dear Mr. Proctor:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

1. Inventorship: Only persons who have made an inventive contribution to the conception of at least one of the claims in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
2. Enablement: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
3. Best Mode: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. James A. Proctor, Jr.

October 24, 2003

Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return **all** pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Mark B. Solomon
Mark B. Solomon

MBS/ec1(mab)

Enclosures

cc: David J. Thibodeau, Jr., Esq.
Ms. Kathleen Renyo

::ODMA\HODMA\Manage;428688;1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 17, 2003 as United States Application Number 10/664,413.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] **OPTION** and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainev

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Roupheal

Inventor's Signature _____ Date _____

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____ Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature _____ Date _____

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

@PFDesktop\ODMA\MHODMA\IMANAGE\428682;1

HAMILTON
BROOK
SMITH &
REYNOLDS, P.C.

PATENTS, TRADEMARKS
COPYRIGHTS & LITIGATION

530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD, MA 01742-9133
TEL (978) 341-0036
FAX (978) 341-0136
www.hbsr.com

MUNROE H. HAMILTON
(1906-1984)

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
JOHN L. DUPRE
DAVID J. BRODY
MARY LOU WAKIMURA
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
SUSAN G. L. GLOVSKY
DOREEN M. HOGLE
RICHARD W. WAGNER
ROBERT T. CONWAY
RODNEY D. JOHNSON
DAVID J. THIBODEAU, JR.
ANNE J. COLLINS
LISA M. TREANNIE
TIMOTHY J. MEAGHER
STEVEN G. DAVIS

SANDRA A. BROCKMAN-LEE
F. JAMES COE
COLIN C. DURHAM
CAROL A. EGNER
ERIK L. ENCE
GIOVANNA FESSENDEN
CAROLINE M. FLEMING
TODD A. GERETY
ANTOINETTE G. GIUGLIANO
ILYA R. LAPSHIN
HELEN LEE
JOSEPH M. MARAIA
MARY K. MURRAY
DEIRDRE E. SANDERS
KEVIN T. SHAUGHNESSY
MARK B. SOLOMON
TROY T. SVIHL
A. CRISTINA TAYLOR*
RALPH TREMENTOZZI
DARRELL L. WONG
JOSEPH C. ZUCCHERO
* NOT ADMITTED IN MASS.

OF COUNSEL

ELIZABETH W. MATA

PATENT AGENTS
SUSAN M. ABELLEIRA
ALEXANDER AKHIEZER
JESSE A. FECKER
PAMELA A. TORPEY
KAREN J. TOWNSEND
ROBERT H. UNDERWOOD

TECHNOLOGY SPECIALISTS
PAUL G. ALLOWAY
KRAIG ANDERSON
SUSAN C. KELLY
LUCY LUBASHEV
VIVIAN J. TANNOCCH
MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN
ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE
ADMINISTRATOR OF
PATENT AND
TRADEMARK PRACTICE

October 24, 2003

Mr. Kenneth M. Gainey
441 Thrush Drive
Satellite Beach, Florida 32937

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple Receiver Systems"
InterDigital Reference No.: TAN02-33
HBSR Docket No.: 2479.2171-001

Dear Mr. Gainey:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

1. Inventorship: Only persons who have made an inventive contribution to the conception of at least one of the claims in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
2. Enablement: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
3. Best Mode: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. Kenneth M. Gainey
October 24, 2003
Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return **all** pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Mark B. Solomon
(Mark B. Solomon)

MBS/ec1(mab)
Enclosures

cc: David J. Thibodeau, Jr., Esq.
Ms. Kathleen Renyo

::ODMA\HODMA\iManage;428686;1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 17, 2003 as United States Application Number 10/664,413.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainey

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Rouphael

Inventor's Signature _____ Date _____

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____ Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature _____ Date _____

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

@PFDesktop\ODMA\MHODMA\IMANAGE;428682;1

HAMILTON
BROOK
SMITH &
REYNOLDS, P.C.

PATENTS, TRADEMARKS
COPYRIGHTS & LITIGATION

530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD, MA 01742-9133
TEL (978) 341-0036
FAX (978) 341-0136
www.hbsr.com

MUNROE H. HAMILTON
(1906-1984)

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
JOHN L. DUPRE
DAVID J. BRODY
MARY LOU WAKIMURA
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
SUSAN G. L. GLOVSKY
DOREEN M. HOGIE
RICHARD W. WAGNER
ROBERT T. CONWAY
RODNEY D. JOHNSON
DAVID J. THIBODEAU, JR.
ANNE J. COLLINS
LISA M. TREANNIE
TIMOTHY J. MEAGHER
STEVEN G. DAVIS

SANDRA A. BROCKMAN-LEE
F. JAMES COE
COLIN C. DURHAM
CAROL A. EGNER
ERIK L. ENCE
GIOVANNA FESSENDEN
CAROLINE M. FLEMING
TODD A. GERETY
ANTOINETTE G. GIUGLIANO
ILYA R. LAPSHIN
HELEN LEE
JOSEPH M. MARIA
MARY K. MURRAY
DEIRDRE E. SANDERS
KEVIN T. SHAUGHNESSY
MARK B. SOLOMON
TROY T. SVIHL
A. CRISTINA TAYLOR
RALPH TREMENTOZZI
DARRELL L. WONG
JOSEPH C. ZUCCHERO
* NOT ADMITTED IN MASS.

OF COUNSEL

ELIZABETH W. MATA

PATENT AGENTS
SUSAN M. ABELLEIRA
ALEXANDER ARKHEZER
JESSE A. PECKER
PAMELA A. TORPEY
KAREN J. TOWNSEND
ROBERT H. UNDERWOOD

TECHNOLOGY SPECIALISTS
PAUL G. ALLOWAY
KRAIG ANDERSON
SUSAN C. KELLY
LUCY LUBASHEV
VIVIAN J. TANNOCH
MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN
ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE
ADMINISTRATOR OF
PATENT AND
TRADEMARK PRACTICE



REMINDER

October 24, 2003

Mr. James A. Proctor, Jr.
258 Sea View Street
Melbourne Beach, Florida 32951

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple Receiver Systems"
InterDigital Reference No.: TAN02-33
HBSR Docket No.: 2479.2171-001

Dear Mr. Proctor:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

1. Inventorship: Only persons who have made an inventive contribution to the conception of at least one of the claims in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
2. Enablement: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
3. Best Mode: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. James A. Proctor, Jr.

October 24, 2003

Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return **all** pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Mark B. Solomon
Mark B. Solomon

MBS/ecl(mab)

Enclosures

cc: David J. Thibodeau, Jr., Esq.
Ms. Kathleen Renyo

::ODMA\HODMA\Manage;428688;I

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application☐ Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

☐ is attached hereto.☒ was filed on September 17, 2003 as United States Application Number 10/664,413.☐ was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] **[OPTION]** and assigned United States Application No. [].☐ and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
(Number)	(Country)	(Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gaine

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Rouphael

Inventor's Signature _____ Date _____

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____

Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature _____

Date _____

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

HAMILTON
BROOK
SMITH &
REYNOLDS, P.C.

PATENTS, TRADEMARKS
COPYRIGHTS & LITIGATION

530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD, MA 01742-9133
TEL (978) 341-0036
FAX (978) 341-0136
www.hbsr.com

MUNROE H. HAMILTON
(1906-1984)

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
JOHN L. DUPRE
DAVID J. BRODY
MARY LOU WAKIMURA
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
SUSAN G. L. GLOVSKY
DOREEN M. HOGLE
RICHARD W. WAGNER
ROBERT T. CONWAY
RODNEY D. JOHNSON
DAVID J. THIBODEAU, JR.
ANNE J. COLLINS
LISA M. TREANNIE
TIMOTHY J. MEAGHER
STEVEN G. DAVIS

SANDRA A. BROCKMAN-LEE
F. JAMES COE
COLIN C. DURHAM
CAROL A. EGNER
ERIK L. ENCE
GIOVANNA FESSENDEN
CAROLINE M. FLEMING
TODD A. GERETY
ANTOINETTE G. GIUGLIANO
ILYA R. LAPSHIN
HELEN LEE
JOSEPH M. MARAIA
MARY K. MURRAY
DEIRDRE E. SANDERS
KEVIN T. SHAUGHNESSY
MARK B. SOLOMON
TROY T. SVIHL
A. CRISTINA TAYLOR
RALPH TREMENTOZZI
DARRELL L. WONG
JOSEPH C. ZUCCHERO
* NOT ADMITTED IN MASS.

OF COUNSEL

ELIZABETH W. MATA

PATENT AGENTS
SUSAN M. ABELLEIRA
ALEXANDER AKHIEZER
JESSE A. FECKER
PAMELA A. TORPEY
KAREN J. TOWNSEND
ROBERT H. UNDERWOOD

TECHNOLOGY SPECIALISTS
PAUL G. ALLOWAY
KRAIG ANDERSON
SUSAN C. KELLY
LUCY LUBASHEV
VIVIAN J. TANNOCH
MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN
ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE
ADMINISTRATOR OF
PATENT AND
TRADEMARK PRACTICE

REMINDER

October 24, 2003

Mr. Kenneth M. Gainey
441 Thrush Drive
Satellite Beach, Florida 32937

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple Receiver Systems"
InterDigital Reference No.: TAN02-33
HBSR Docket No.: 2479.2171-001

Dear Mr. Gainey:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

1. Inventorship: Only persons who have made an inventive contribution to the conception of at least one of the claims in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
2. Enablement: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
3. Best Mode: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. Kenneth M. Gainey
October 24, 2003
Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return **all** pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Mark B. Solomon
(Mark B. Solomon)

MBS/ecl(mab)
Enclosures

cc: David J. Thibodeau, Jr., Esq.
Ms. Kathleen Renyo

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 17, 2003 as United States Application Number 10/664,413.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
			YES	NO	
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Bing Chiang

Inventor's Signature _____ Date _____

Residence 3662 Whisperwood Circle

Melbourne, FL 32901

Citizenship USA

Mailing Address Same As Above

Full name of second joint

inventor, if any Kenneth M. Gainey

Inventor's Signature _____ Date _____

Residence 441 Thrush Drive

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of third joint

inventor, if any James A. Proctor, Jr.

Inventor's Signature _____ Date _____

Residence 258 Sea View Street

Melbourne Beach, FL 32951

Citizenship USA

Mailing Address Same As Above

Full name of fourth joint

inventor, if any Antoine J. Roupbael

Inventor's Signature _____ Date _____

Residence 3503 Wild Oak Lane

Escondido, CA 92027

Citizenship USA

Mailing Address Same As Above

Full name of fifth joint

inventor, if any Griffin K. Gothard

Inventor's Signature _____

Date _____

Residence 309 Harwood Avenue

Satellite Beach, FL 32937

Citizenship USA

Mailing Address Same As Above

Full name of sixth joint

inventor, if any Michael J. Lynch

Inventor's Signature _____

Date _____

Residence 4195 Richwood Court

Merritt Island, FL 32952

Citizenship USA

Mailing Address Same As Above

@PPFDesktop\ODMA\MHODMA\IMANAGE;428682;1